

FORECAST EARTH

EPA #2 - URBAN HEAT ISLAND EFFECT - MITIGATION

DATE 6/19/03

Final Script

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T/CODE	VIDEO	AUDIO
	ACT 1	ACT 1
	<p>B-ROLL: A TRANQUIL COUNTRY SCENE. THEN, WE CONTRAST THIS QUIET SERENITY WITH A MONTAGE OF URBAN LANDSCAPES: HI-RISES, BACKED UP TRAFFIC, TRACT HOUSING.</p> <p>N 0224: country scenes TRAFFIC: (I 4184, I 4129, I 4167, I 4012)</p>	<p>(nat sot) VO#1: GIANT HEAT BUBBLES ARE FORMING OVER OUR CITIES- AGGRAVATING HEAT-RELATED HEALTH PROBLEMS.</p> <p>THIS PHENOMENON IS KNOWN AS "THE URBAN HEAT ISLAND EFFECT".</p>
	<p>DALE QUATTROCHI ON CAMERA</p> <p>ANIMATION (I 4167 or I 4112 (TWC)) or</p>	<p>02:03:0 DALE QUATTROCHI: //surfaces such as asphalt, rooftops and pavement really absorbs and stores this solar radiation //and actually forms //a dome of heat over the city // which can raise temperatures five degrees-- seven degrees, even ten degrees.</p>
	<p>LARRY KALKSTEIN ON CAMERA</p> <p>AMBULANCE W/SIREN (I 4005, I 4171)</p>	<p>01:07:46 LARRY KALKSTEIN: //that may mean the difference between people being healthy and //01:11:58 incidents of heat stress related illnesses and even death.</p>
		<p>01:27:12 HASHEM AKBARI: // the problem is so huge that one cannot handle it in one lab by itself.</p>
	<p>B-ROLL: EQUIPMENT USED TO TEST REFLECTIVITY OF TILES, BERKELEY LAB (I 4193)</p>	<p>VO#2: FACED WITH A CHALLENGE, THE ENVIRONMENTAL PROTECTION AGENCY ACTIVELY WORKS WITH LEADING SCIENTISTS ON COOLING OFF OUR CITIES.</p>
		<p>VO #3: TYPICALLY THE GREATEST IMPROVEMENTS HAVE BEEN MADE BY FOCUSING ON SURFACES. THESE INCLUDES ROOF TOPS, PAVEMENTS AND PARKING STRUCTURES AS OVER FIFTY-FIVE PERCENT OF OUR CITIES ARE MANMADE SURFACES.</p>
	<p>B-ROLL: MAN TAKING APART A ROOF ON A HOUSE (I 4221) I 4107 - R-Mer Lite: cool roofs</p>	<p>DALE QUATTROCHI: // why is it that surfaces have to be black? 02:15:12 //For example, asphalt. Or rooftops. Uh, why can't we lighten these surfaces up both in color and in overall reflectivity -- for aiding the overall development of the urban heat island effect.</p>

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	LARRY KALKSTEIN ON CAMERA STILLS: ROW HOUSES WITH COOL ROOFS	01:17:28 LARRY KALKSTEIN: //In Philadelphia the city has instituted a very successful cool roof program. // and they've noted that the temperatures in the light roofed houses are significantly cooler than in the black roofed houses.
	B-ROLL: PEOPLE PLANTING TREES, VEGETATION (I 4221, I 4112, I 4237)	VO#4: ANOTHER EASY SOLUTION TO THE URBAN HEAT ISLAND PROBLEM IS TO SIMPLY PLANT MORE TREES AND VEGETATION.
	LUCIE GRIGGS ON CAMERA B-ROLL: TURNER FIELD SHOTS (I 4220, I 4237)	04:23:53 LUCIE GRIGGS: A success story in Atlanta // is the example at Turner field. // where they converted a very large surface parking lot, which was essentially a huge heat sink, into a more tree canopied lot. //Made it cooler.
	B-ROLL: EMERGENCY MANAGEMENT COMMUNITY—RED CROSS (I 4005, I 4130, I 4131)	VO#5: THE DANGERS OF URBAN HEAT ISLANDS CAN BE TACKLED, BUT IT WILL TAKE THE COMBINED EFFORTS OF CITIZENS, COMMERCIAL ENTERPRISE AND GOVERNMENT.
		04:08:57 LUCIE GRIGGS: It's just a matter of changing the color of a roof. The color of a paving. Planting some more trees.
		01:34:06 HASHEM AKBARI: Heat island is a man made effect and man can undo it.
	THE END	